



DEP's

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

DYNAMIC PLAN

Division of Waste Management

Florida Department of Environmental Protection

August 2021



- [EPA's Per- and Polyfluoroalkyl Substances \(PFAS\) Dynamic Plan - August 2021](#)

Areas of Investigation

- [Fire Training Facility Preliminary Site Assessments](#)
- [Site Investigation Section State Funded PFOS and PFOS Sampling Efforts Associated with Public Well Systems in Florida](#)
- [Waste Site Cleanup State Funded PFAS Sampling Efforts](#)
- [Drycleaning Solvent Cleanup Program State Funded PFAS Sampling Efforts](#)
- [Florida Statewide PFAS Pilot Study at Drycleaning Sites](#)
- [Federal Department of Defense Sites](#)

Technical Developments

- [Contaminated Media Forum](#)
- [Development of Surface Water Screening Levels for PFOS and PFOS Based on the Protection of Human Health Using Probabilistic Risk Assessment - April 2020](#)
- [Provisional Leachability Soil Cleanup Target Levels - January 2019 \(Updated\)](#)
- [Provisional Groundwater Cleanup Target Levels - August 2018](#)
- [Provisional Soil Cleanup Target Levels - April 2018](#)

Resources

- [Guidance on PFAS Criteria Development in Other States - March 23, 2020](#)
- [EPA PFAS/PHOS Health Advisory Fact Sheet](#)
- [EPA Technical Procedures for Addressing Environmental Releases of Per- and Polyfluoroalkyl Substances](#)
- [Fire Training Facilities Assessment for PFOS and PFOS - Frequently Asked Questions](#)
- [EPA PFAS Fact Sheet](#)



PROVISIONAL CLEANUP TARGET LEVELS

Provisional Groundwater Cleanup Target Levels (PGCTL)

- PFOA: 70 ppt (0.07 ug/L)
- PFOS: 70 ppt (0.07 ug/L)
- PFOA + PFOS: 70 ppt (0.07 ug/L)

Developed using non-cancer GCTL equation in 62-777, F.A.C.. Assumptions consistent with EPA calculation of Health Advisory Level (HAL).

Provisional Soil Cleanup Target Levels (PSCTL)

- PFOA: 1.3 mg/kg residential
- 25 mg/kg commercial/industrial
 - 0.002 mg/kg leachability
- PFOS: 1.3 mg/kg residential
- 25 mg/kg commercial/industrial
 - 0.007 mg/kg leachability

Developed using non-cancer SCTL equation in 62-777, F.A.C., chemical specific properties and reference dose developed by EPA in their 2016 HAL calculation



Dynamic Plan

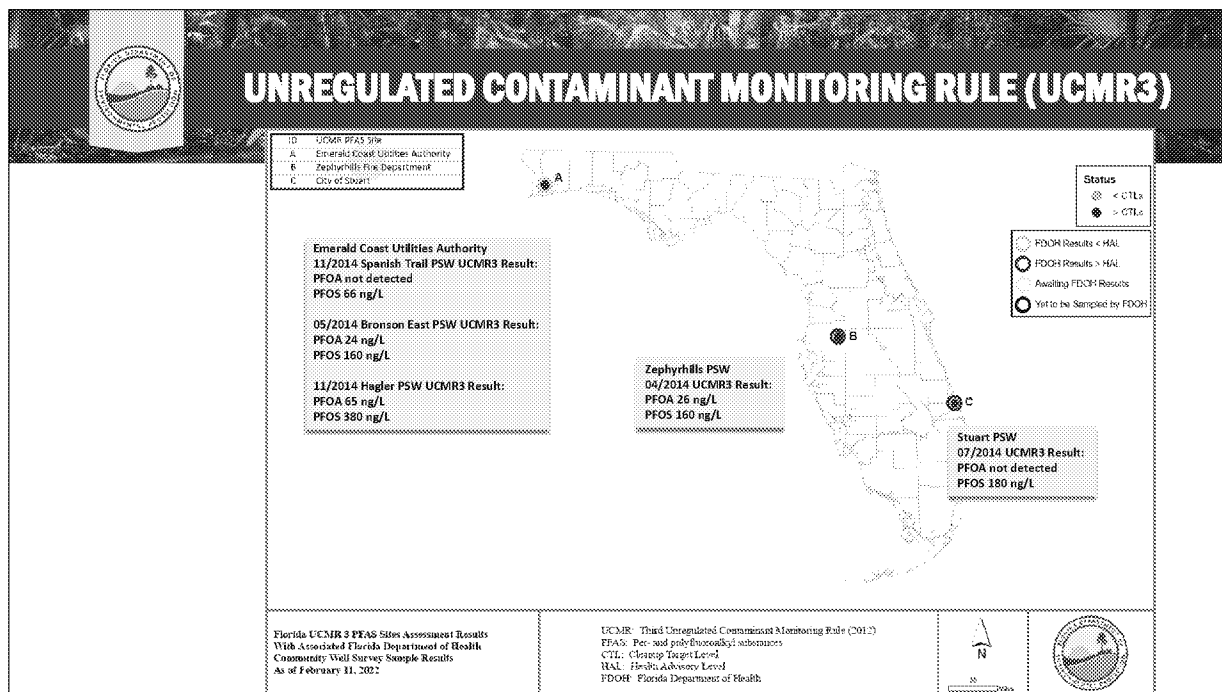
Table 6 – DEP Investigation and DOH Response

PFOA/PFOS Results (Groundwater)	DEP Action	DOH Action
>70 ng/L	DEP contracts DOH well survey	Well survey, sample private wells within 1-mile radius
35 to 70 ng/L	Quarterly sampling	No well survey unless results from quarterly monitoring > 70 ng/L
< 35 ng/L	No further sampling	No well survey

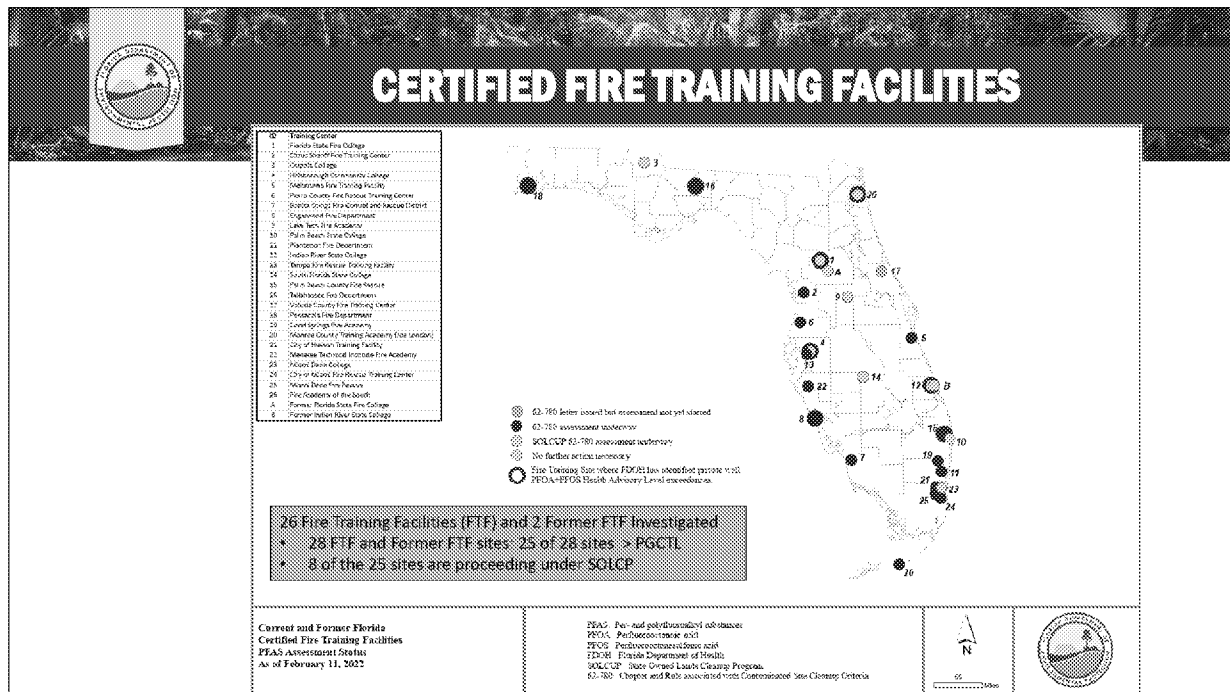
DEP Water Supply Restoration Program

The Water Supply Restoration Program provides access to bottled water or an alternative water supply to any affected well owner whose test results exceed the lifetime HAL. This voluntary program also provides funding for a filter, well restoration or connection to a public water system, as necessary, to ensure a safe drinking water supply. A temporary water supply is provided until a long-term solution is established.

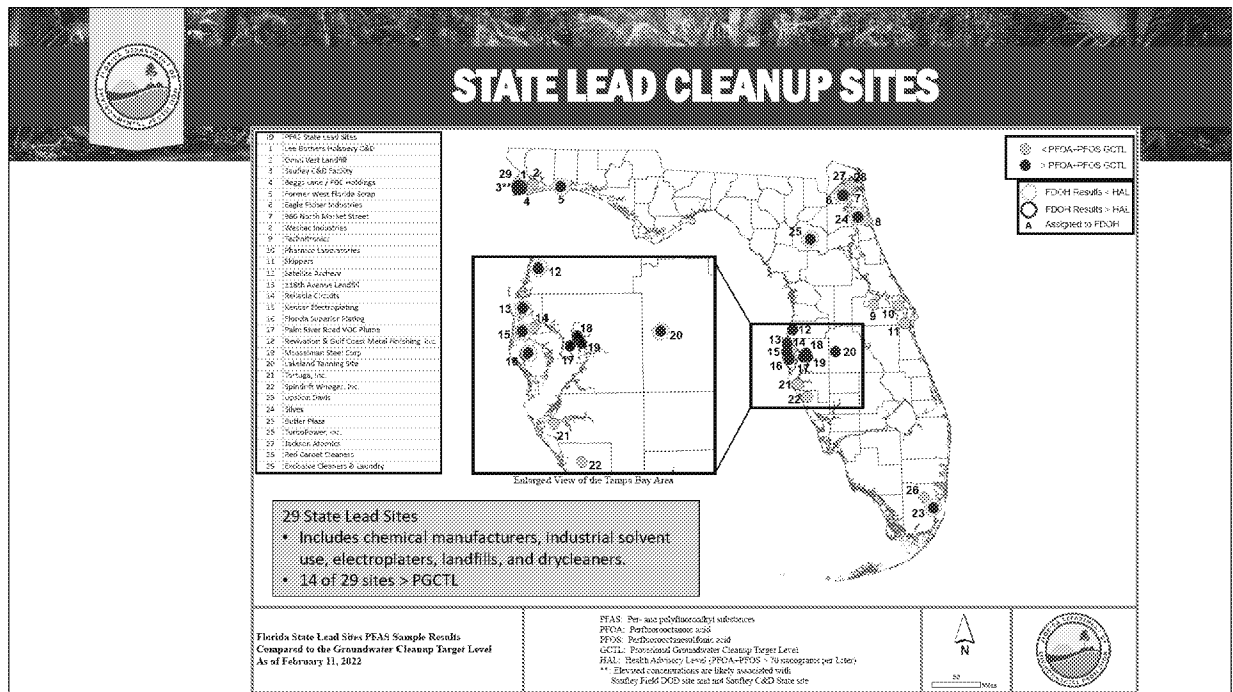
- [Water Supply Restoration Program Information.](#)
- [Request for Water Supply Restoration or Replacement Form.](#)



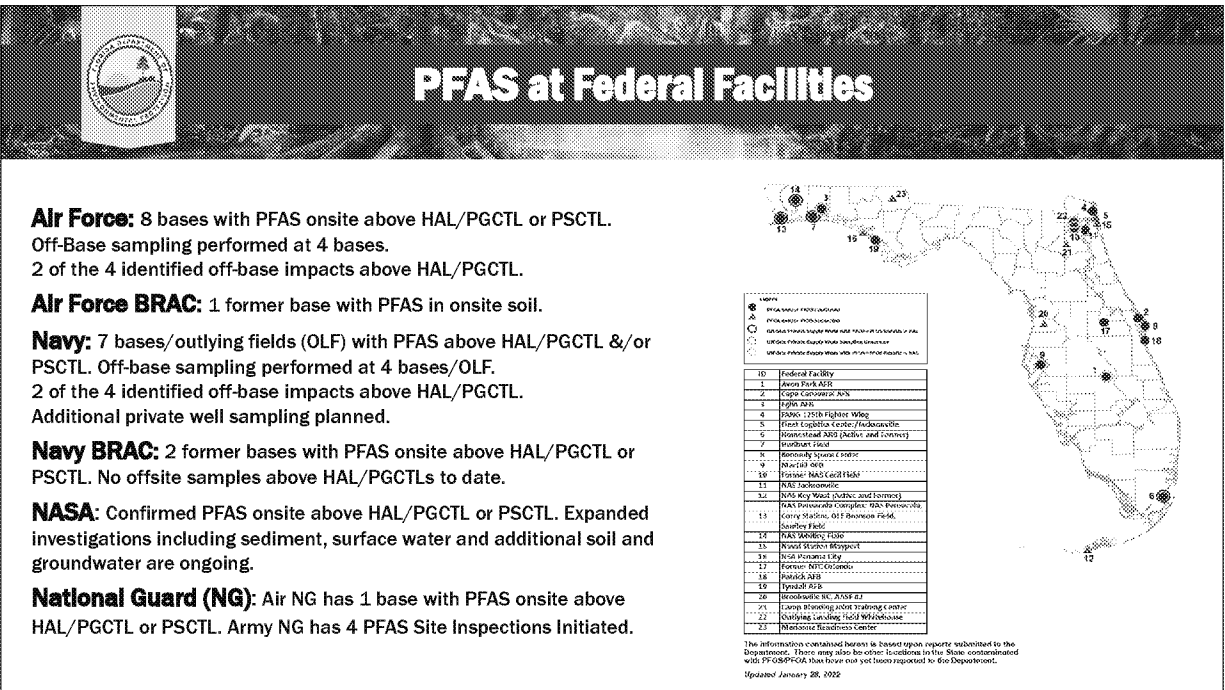
Changed A to Green Circle ERIC_6496, 2 wells sampled above ½ HAL DOH completing quarterly sampling.



Add ERIC_7538 (Former IRSC) - blue dot
 Add ERIC_5641 (Former FSFC) - blue dot
 Change #26 to add red circle
 I think Palm Beach Co TFT ERIC_7412 needs a red circle?



Add
 Red Carpet Cleaners ERIC_ 7545 (green dot)
 Exclusive Cleaners & Laundry, Inc. ERIC_ 4636 (green dot)



We also continue to work with a number of federal facilities across the state, some with significant impacts of PFAS. In some cases there have been offsite private well impacts. Each branch is operating differently with some further along than others. Notable in those investigations has been two of the navy bases which have PFAS above the HAL in onsite public water supply (NAS Whiting Field, NAS Pensacola). Many of these investigations are still in their infancy, but we expect the number of assessments to continue to grow.

AF 8 bases with onsite above:

Avon Park –
Off base completed – none above HAL
Homestead
Off base 4 > HAL- water deliverer set up
MacDill
Cape Canaveral
Patrick
Eglin
Off base - ongoing
Hurlburt Field
Off base 1 > HAL
Tyndall

AF BRAC – Homestead (soil) only

Navy 7 Bases or OLF:

NAS Jacksonville
NAS Pensacola
Saufley Field
Off base impacts
NAS Whiting Field
1/19/2022- 12 > HAL, and 11 hooked up to potable water (TCRA)
PWS impacted too
OLF - Bronson Field – no private wells within 1 mile
Corry Station
Offbase ongoing
OLF - Whitehouse
Offbase complete – none above HAL

Navy BRAC-
Cecil Field (BRAC)
Former Orlando NTC (BRAC)

Reason for less locations on map than added in text -
16 total – sites located on map (red dots) including new site Whitehouse OLF.
20 noted in Text - Homestead counted 2x (Active and former)
Corry, Bronson, Suafley and NAS Pen (4 sites noted as 1 location).



CONTINUING PFAS WORK ON FTFs

- Six active certified FTFs:

Florida State Fire College – 891 tons of soil removed during ISR; ongoing investigation of three on-site PFAS Areas of Concern (AOCs).

Hillsborough Community College FTF – two or more off-site PFAS sources are suspected unrelated to AFFF (aqueous film forming foam); delineation continues and may include forensics.

Indian River State College FTF – supplemental soil and groundwater characterization off-site.

Palm Beach State College FTF – additional PFAS assessment in progress, including off-site.

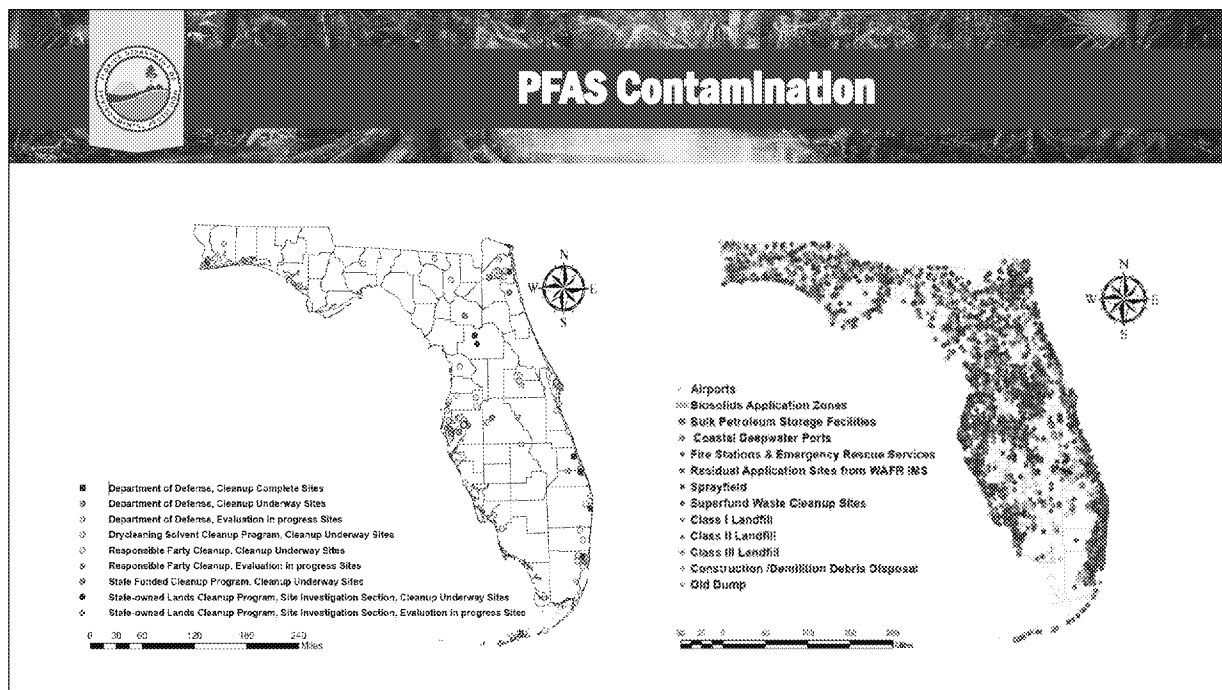
Miami-Dade College FTF – First phase of PFAS assessment at one AOC was completed by others. Assessment by DEP continues and includes three additional AOCs.

Fire Academy of the South – Initial phases of PFAS assessment were completed by others. DEP scope of additional assessment includes three AOCs.

- Work at two former certified FTFs:

Former Indian River State College FTF – additional assessment off-site will fully characterize extent and magnitude of PFAS in groundwater.

Former Florida State Fire College – off-site PFAS contaminant migration; additional soil and Floridan aquifer assessment underway soon.



Data on left pulled from ERIC PFAS Sites